

## Accepted Manuscript

'Bosons' and 'fermions' in social and economic systems

Sergey A. Rashkovskiy

PII: S0378-4371(18)31189-0  
DOI: <https://doi.org/10.1016/j.physa.2018.09.057>  
Reference: PHYSA 20118

To appear in: *Physica A*



Please cite this article as: S.A. Rashkovskiy, 'Bosons' and 'fermions' in social and economic systems, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.09.057>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- Statistical description of hierarchical social and economic systems is proposed.
- It is shown that in social and economic hierarchical systems, there are elements that obey the Fermi-Dirac statistics and the Bose-Einstein statistics.
- It is shown that social and economic hierarchical systems can be described by the intermediate Gentile statistics.
- The first and second laws of thermodynamics are derived for economic system.

Download English Version:

<https://daneshyari.com/en/article/10226808>

Download Persian Version:

<https://daneshyari.com/article/10226808>

[Daneshyari.com](https://daneshyari.com)